



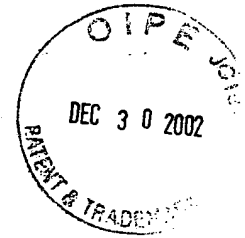
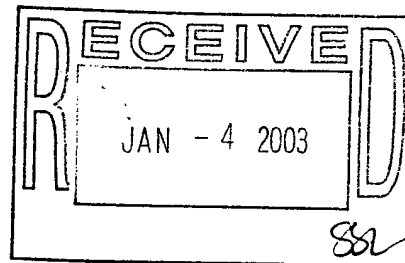
DOCKET NO.: G-101US05REG
APPLICANTS: Cohen & Chumakov
SERIAL NO.: 10/051,681
FILED : January 16, 2002

December 16, 2002

CONF. NO.: 1458

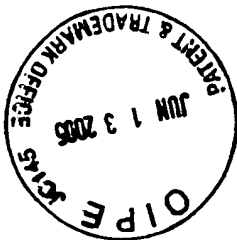
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2. PTO/SB/08A & B (10 pages)
References Listed Thereon (US 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000)



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			Application Number	10/051.681
			Filing Date	January 16, 2002
			First Named Inventor	D. COHEN, et al.
			Art Unit	1645
			Examiner Name	Unassigned
			Attorney Docket Number	101.US5.REG

U.S. PATENT DOCUMENTS					
Examiner Initials ¹	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
	U1	US- 6,184,218 B1	02/06/2001	Evenden, et al.	
	U2	US- 6,218,544 B1	04/17/2001	Li, et al.	
	U3	US- 6,214,846 B1	04/10/2001	Elliott	
	U4	US- 6,232,326	05/15/2001	Nelson	
	U5	US- 6,174,909	01/16/2001	Falch, et al.	
	U6	US- 5,965,571	10/12/1999	Hutchinson	
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	F1	WO 00/22122 A2	04/20/2000	Genset		
	F2	WO 01/40493 A2	06/07/2001	Genset		
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		Application Number	10/051.681
		Filing Date	January 16, 2002
		First Named Inventor	D. COHEN, et al.
		Group Art Unit	1645
		Examiner Name	Unassigned
		Attorney Docket Number	101.US5.REG
Sheet	2	of	10

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
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	R1	ALSTON, T, et al. "Suicide inactivation of D-amino acid oxidase by 1-chloro-1-nitroethane"; The Journal of Biological Chemistry, Vol 258, N°2 : 1136-41, January 25, 1983	
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	R12	FONDA, M, et al. "D-amino acid oxydase"; The Journal of Biological Chemistry, Vol 243, N°8 : 1931-5, April 25, 1968	
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		First Named Inventor	D. COHEN, et al.
		Group Art Unit	1645
		Examiner Name	Unassigned
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Sheet	5	of	10

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
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	R45	SHELL, M, et al. "D-serine as a neuromodulator : regional and developmental localizations in rat brain glia resemble NMDA receptors"; The Journal of Neuroscience, Vol 17, N°5 : 1604-15, March 1, 1997	
	R46	SETOYAMA, C, et al. "Structural and functional characterization of the human brain D-aspartate oxidase"; J. Biochem, Vol 121, N°4 : 798-803, 1997	
	R47	SNYDER, SH, et al. "D-amino acids as putative neurotransmitters : focus on D-serine"; Neurochemical Research, Vol 25, N°5 : 553-60, 2000	
	R48	SWENSON, RP, et al. "Methylation of the active center histidine 217 in D-amino acid oxidase by Methyl-p-nitrobenzenesulfonate"; The Journal of Biological Chemistry, Vol 259, N°9 : 5585-90, May 10, 1984	
	R49	SWENSON, RP, et al. "Chemical modification of D-amino acid oxidase"; The Journal of Biological Chemistry, Vol 257, N°4 : 1937-44, February 25, 1982	
	R50	TANAKA, F, et al. "Interaction of steroids with D-amino acid oxidase"; Biochimica et Biophysica Acta, Vol 522 : 43-8, 1978	
	R51	VAMECQ, J, et al. "Inhibition of peroxisomal fatty acyl-CoA oxidase by antimycin A"; Biochem J., Vol 248 : 603-7, 1987	
	R52	VAN VELDHOFEN, P, et al. "D-aspartate oxidase, a peroxisomal enzyme in liver of rat and man"; Biochimica et Biophysica Acta, Vol 1073 : 203-8, 1991	
	R53	WANG, H, et al. "Regulation of rat magnocellular neurosecretory system by D-aspartate : evidence for biological role(s) of a naturally occurring free D-amino acid in mammals"; Journal of Endocrinology, Vol 167 : 247-52, 2000	
	R54	WATANABE, F, et al. "Site-specific mutagenesis of lysine-204, tyrosine-224, tyrosine-228, and histidine-307 of porcine kidney D-amino acid oxidase and the implications as to its catalytic function"; J. Biochem, Vol 105, N°6 : 1024-9, 1989	
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		Filing Date	January 16, 2002
		First Named Inventor	D. COHEN, et al.
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	R56	AMERY, L, et al. "C-terminal tripeptide Ser-Asn-Leu (SNL) of human D-aspartate oxidase is a functional peroxisome-targeting signal"; Biochem J, Vol 336 : 367-71, 1998 - ABSTRACT	
	R57	ARMATI, P.J, et al. "A new medium for in vitro peripheral nervous tissue myelination without the use of antimicrobials"; J Neurosci Methods, Vol 33 (2-3) : 149-55, 1990 - ABSTRACT	
	R58	ARNOLD, G, et al. "Ultrastructural localization of D-amino acid oxidase in microperoxisomes of the rat nervous system"; J Histochem Cytochem, Vol 27(3) : 735-45, 1979 - ABSTRACT	
	R59	ASSI, AA, et al. "An in vitro and in vivo study of some biological and biochemical effects of Sistrurus Malaris Barbours venom"; Toxicology, Vol 137(2) : 81-94, 1999 - ABSTRACT	
	R60	BEARD, ME "D-aspartate oxidation by rat and bovine renal peroxisomes : an electron microscopic cytochemical study"; J Histochem Cytochem, Vol 38(9) : 1377-81, 1990 - ABSTRACT	
	R61	CIMINI, AM, et al. "Presence of heterogeneous peroxisomal populations in the rat nervous tissue"; Biochim Biophys Acta, Vol 1425(1) : 13-26, 1998 - ABSTRACT	
	R62	COOPER, A.J, et al. "Inhibition of glutamate-aspartate transaminase by beta-methylene-DL-aspartate"; Biochem Pharmacol, Vol 32(4) : 679-89, 1983 - ABSTRACT	
	R63	D'ANIELLO, G, et al. "The role of D-aspartic acid and N-methyl-D-aspartic acid in the regulation of prolactin release"; Endocrinology, Vol 141(10) : 3862-70, 2000 - ABSTRACT	
	R64	D'ANIELLO, G, et al. "Occurrence of free D-aspartic acid in the circumoesophageal ganglia of Aplysia fasciata"; Life Sci, Vol 52(8) : 733-6, 1993 - ABSTRACT	
	R65	DE MORAES, GH, et al. "Effects of D-amino acids on growth rate and kidney D-amino acid oxidase in chicks"; Poult Sci, Vol 66(1) : 98-102, 1987 - ABSTRACT	
	R66	FISHER, GH, et al. "Quantification of D-aspartate in normal and Alzheimer brains"; Neurosci Lett, Vol 143(1-2) : 215-8, 1992 - ABSTRACT	

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	R67	GILBERT, SF, et al. "Selective culture medium enhances survival of neuroblasts from postnatal rodent brain"; Brain Res Bull, Vol 16(6) : 853-60, 1986 - ABSTRACT	
	R68	HASHIMOTO, A, et al. "Anatomical distribution and postnatal changes in endogenous free D-aspartate and D-serine in rat brain and periphery"; Eur J Neurosci, Vol 7(8) : 1657-63, 1995 - ABSTRACT	
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	R70	NARDINI, M, et al. "Detection of 2H-1,4-thiazine-5,6-dihydro-3-carboxylic acid (aminoethylcysteine ketimine) in the bovine brain"; Biochem Biophys Res Commun, Vol 166(3) : 1251-6, 1990 - ABSTRACT	
	R71	NEGRI, A, et al. "D-aspartate oxidase from beef kidney. Purification and properties"; J Biol Chem, Vol 262(21) : 10026-34, 1987 - ABSTRACT	
	R72	NEGRI, A, et al. "Purification of beef kidney D-aspartate oxidase overexpressed in Escherichia coli and characterization of its redox potentials and oxidative activity towards agonists and antagonists of excitatory amino acid receptors"; Biochim Biophys Acta, Vol 1431(1) : 212-22, 1999 - ABSTRACT	
	R73	PERRY, RH, et al. "Cortical neuropathological and neurochemical substrates of Alzheimer's and Parkinson's diseases"; J Neural Trans Suppl, Vol 24:131-6, 1987 - ABSTRACT	
	R74	SHAPIRA, R, et al. "Neuritic plaque amyloid in Alzheimer's disease is highly racemized"; J Neurochem, Vol 50(1) : 69-74, 1988 - ABSTRACT	
	R75	SIKORA, L, et al. "Regulation of L-amino acid oxidase and of D-amino acid oxidase in Neurospora crassa"; Mol Gen Genet, Vol 186(1) : 33-9, 1982 - ABSTRACT	
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	R78	TEDESCHI, G. <i>et al.</i> , "Properties of the flavoenzyme D-aspartate oxidase from <i>Octopus vulgaris</i> ", <i>Biochim Biophys Acta</i> , Vol. 1207(2): 217-22 (1994) - ABSTRACT	
	R79	TORII, S. <i>et al.</i> , "Molecular cloning and functional analysis of apoxin I, a snake venom-derived apoptosis-inducing factor with L-amino acid oxidase activity", <i>Biochemistry</i> , Vol. 39(12): 3197-205 (2000) - ABSTRACT	
	R80	WAKE, K. <i>et al.</i> , "Exaggerated responses to chronic nociceptive stimuli and enhancement of N-methyl-D-aspartate receptor-mediated synaptic transmission in mutant mice lacking D-amino-acid oxidase", <i>Neurosci. Lett.</i> , Vol. 297(1): 25-8 (2001) - ABSTRACT	
	R81	YAMADA, R., <i>et al.</i> , "Purification and properties of D-aspartate oxidase from <i>Cryptococcus humicola</i> UJ1", <i>Biochim Biophys Acta</i> , Vol. 1294(2): 153-8 (1996) - ABSTRACT	
	R82	BARKER, R. <i>et al.</i> , "The genetic and biochemical proprieties of the D-amino acid oxidases in human tissues", <i>Ann. Hum. Genet.</i> , 41(1): 27-42 (1997), Accession No. 004032.	
	R83	MOMOI, K. <i>et al.</i> , "Molecular cloning and sequence analysis of kidney D-amino acid oxidase", <i>FEBS Lett.</i> , 238: 180-184 (1988), Accession No. P14920.	
	R84	SETOYAMA, C. <i>et al.</i> , "Structural and functional characterization of the human brain D-aspartate oxidase", <i>J. Biochem.</i> , 121(4): 798-803 (1997), Accession No. JC5438.	
	R85	CRUZ, L.J. <i>et al.</i> , "Mutual antagonism in the metabolism of D-valine and D-leucine and antagonism by their analogs", <i>Arch Biochem Biophys.</i> , 1969, 135(1):341-9, PubMed, PMID: 4391341.	
	R86	DE KOK, A. <i>et al.</i> , "Studies on L-amino acid oxidase. I. Effects of pH and competitive inhibitors", <i>Biochim Biophys Acta</i> , 1968, 167(1): 35-47, PubMed, PMID: 5693709.	
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	R88	MCFARLANE, I.G. <i>et al.</i> , "Metabolism of leucine in protein-calorie-deficient rats", <i>Biochem J.</i> , 1969, 111(4):565-71, PubMed, PMID: 4388242.	
	R89	MECHER, T. <i>et al.</i> , "Presence of L-amino-acid oxidase in the blood in pemphigus, dermatitis herpetiformis Duhning and herpes zoster", <i>Clin. Chim. Acta</i> , 1969, 24(1): 111-20, PubMed, PMID: 5780154.	

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	R90	MIZON, J. <i>et al.</i> , "Properties of turkey (<i>Meleagris gallopavo</i> L.) liver L-amino acid oxidase", <i>Biochim Biophys Acta</i> , 1970, 212(1):33-42 [article in French], PubMed, PMID 5500943.	
	R91	NEIMS, A.H. <i>et al.</i> , "Distribution of D-amino acid oxidase in bovine and human nervous tissues", <i>J Neurochem</i> , 1966, 13(3):163-8, PubMed, PMID: 4380208.	
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	R93	SHINWARI, M.A. <i>et al.</i> , "Naturally occurring inhibition and activation of avian liver L-amino acid oxidase", 1967, 104(3): 53P - 54P, PubMed, PMID: 6049890.	
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	R95	SIVA SANKAR, D.V. <i>et al.</i> , "The effect of chlorpromazine and of oxygen on the substrate-inhibition of L-amino acid oxidase", <i>Biochem. Med.</i> , 1975(1): 75-82, PubMed, PMID: 1212242.	
	R96	ZELLER, E.A. <i>et al.</i> , "Interaction of ophidian L-amino acid oxidase with its substrates and inhibitors: role of molecular geometry and electron distribution. Communication 6 on ophidian L-amino acid oxidases", <i>Helv. Chim. Acta</i> , 1974;57(8): 2406-20, PubMed, PMID: 4443288.	
	R97	ZIMMERMAN, S.E. <i>et al.</i> , "Immunochemical studies of L-amino acid oxidase", <i>Biochim Biophys Acta</i> , 1971, 229(1):260-70, PubMed, PMID: 5543611.	
	R98		
	R99		
	R100		
	R101		

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